

WE CLAIM:

1. A method for *in-situ* dense non-aqueous phase liquids treatment comprising the steps of:

locating a subsurface source area comprising at least one rapid release contaminant;

removing free water from said subsurface source area;

heating said subsurface source area to a temperature suitable for extracting said at least one rapid release contaminant from said subsurface source area; and

extracting said at least one rapid release contaminant from said subsurface source area, resulting in solidification of said dense non-aqueous phase liquids remaining in said subsurface source area.

2. A method in accordance with Claim 1, wherein said at least one rapid release contaminant is extracted using vacuum extraction.

3. A method in accordance with Claim 1, wherein a sweep gas is passed through said subsurface source area.

4. A method in accordance with Claim 1, wherein said subsurface source area is heated to a temperature in a range of about 80°C to about 200°C.

5. A method in accordance with Claim 1, wherein said subsurface source area is heated by a dry heat source.

6. A method in accordance with Claim 3, wherein said sweep gas is an inert gas.

7. A method in accordance with Claim 6, wherein said inert gas is selected from the group consisting of air, nitrogen, helium and mixtures thereof.

8. A method in accordance with Claim 3, wherein said sweep gas comprises at least one gaseous oxidant.

9. A method in accordance with Claim 1, wherein said subsurface source area is identified by three dimensional mapping of PID/FID measurements.

10. A method in accordance with Claim 2, wherein said vacuum extraction is carried out at a vacuum up to about 30 inches of mercury.

11. A method in accordance with Claim 10, wherein said vacuum extraction is carried out at a vacuum in a range of about 5 to about 15 inches of mercury.

12. A method in accordance with Claim 8, wherein said gaseous oxidant is ozone.